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TI Extrusion of cement-based building materials

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DT Patent

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CC 58-4 (Cement, Concrete, and Related Building Materials)

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CLASS

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AB In the extrusion of compns. comprising cement, SiO₂ powder (0.7-1.3 weight parts/weight part cement), reinforcing fibers, lightwt. aggregate, and an extrusion aid, 0.1-3 weight% (based on the the above mixture) salt of naphthalenesulfonic acid-H₂CO condensate and 3-15 weight% Mg(OH)₂ are added to the mixture and then water is mixed to be extruded. A mixture prepared from cement 40, sand 53, cellulose pulp 7, foamed polystyrene beads 0.85, Me cellulose 0.6, and water 50 weight parts, with addition of Mighty 150 3.0, and Mg(OH)₂ 5-10 weight parts, was extruded and cured first at 30° for 15 h and then autoclaved at 6.7 kg/cm² for 8 h to give smooth boards having bending strength 101 kg/cm².

ST plasticizer magnesium hydroxide cement